



# Certificate of Analysis

Customer Name: Lief Holdings  
 Address: 9016 Fullbright Ave  
 Chatsworth, CA 91311  
 Sample Name: SOOTHING BODY BAR  
 Product Code: N/A  
 Batch/Lot#: A1060196  
 MQL Accession #: 190920-0258

Tested By: Micro Quality Labs, Inc.  
 Address: 3125 N. Damon Way, Burbank, CA 91505  
 P: (818)845-0070 F: (818)845-0030  
 PO#: N/A  
 Sample Description: FG  
 Rush: N/A  
 Received Date: 09/20/19

## Pesticide Test Results

Pesticide, Fungicide and plant growth regular analysis utilizing Gas Chromatography – Mass Spectrometry. MQLTM-0343 (USP<S61>Modified) By GC-MS

|  | µg/g       | LOD µg/g | LOQ µg/g |
|--|------------|----------|----------|
| Acephate   | < 0.1 ppm  | 0.1 ppm  | 0.1 ppm  |
| Alachlor   | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Aldrin and dieldrin (sum of)                     | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Azinphos-ethyl                                   | < 0.1 ppm  | 0.1 ppm  | 0.1 ppm  |
| Azinphos-methyl                                  | < 1 ppm    | 1 ppm    | 1 ppm    |
| Bromide, inorganic                               | < 125 ppm  | 125 ppm  | 125 ppm  |
| Bromophos-ethyl                                  | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Bromophos-methyl                                 | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Bromopropylate                                   | < 3 ppm    | 3 ppm    | 3 ppm    |
| Chlordane (sum of)                               | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Clofenvinphos                                    | < 0.5 ppm  | 0.5 ppm  | 0.5 ppm  |
| Chlorpyrifos-ethyl                               | < 0.2 ppm  | 0.2 ppm  | 0.2 ppm  |
| Chlorpyrifos-methyl                              | < 0.1 ppm  | 0.1 ppm  | 0.1 ppm  |
| Chlorthal-dimethyl                               | < 0.01 ppm | 0.01 ppm | 0.01 ppm |
| Cyfluthrin (sum of)                              | < 0.1 ppm  | 0.1 ppm  | 0.1 ppm  |
| λ-Cyhalothrin                                    | < 1 ppm    | 1 ppm    | 1 ppm    |
| Cypermethrin and isomers (sum of)                | < 1 ppm    | 1 ppm    | 1 ppm    |
| DDT (sum of)                                     | < 1 ppm    | 1 ppm    | 1 ppm    |
| Deltamethrin                                     | < 0.5 ppm  | 0.5 ppm  | 0.5 ppm  |
| Diazinon   | < 0.5 ppm  | 0.5 ppm  | 0.5 ppm  |
| Dichlofluanid                                    | < 0.1 ppm  | 0.1 ppm  | 0.1 ppm  |
| Dichlorvos                                       | < 1 ppm    | 1 ppm    | 1 ppm    |
| Dicofol  | < 0.5 ppm  | 0.5 ppm  | 0.5 ppm  |
| Dimethoate and omethoate (sum of)                | < 0.1 ppm  | 0.1 ppm  | 0.1 ppm  |
| Dithiocarbamates (expressed as CS <sub>2</sub> ) | < 2 ppm    | 2 ppm    | 2 ppm    |
| Endosulfan (sum of)                              | < 3 ppm    | 3 ppm    | 3 ppm    |
| Endrin   | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Ethion   | < 2 ppm    | 2 ppm    | 2 ppm    |
| Etrimphos  | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Fenchlorophos (sum of)                           | < 0.1 ppm  | 0.1 ppm  | 0.1 ppm  |
| Fenitrothion                                     | < 0.5 ppm  | 0.5 ppm  | 0.5 ppm  |
| Fenprothrin                                      | < 0.03 ppm | 0.03 ppm | 0.03 ppm |
| Fensulfthion (sum of)                            | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Fenthion (sum of)                                | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Fenvalerate                                      | < 1.5 ppm  | 1.5 ppm  | 1.5 ppm  |
| Flucythrinate                                    | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| λ-Fluvalinate                                    | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Fonophos   | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Heptachlor (sum of)                              | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Hexachlorbenzene                                 | < 0.1 ppm  | 0.1 ppm  | 0.1 ppm  |
| Hexachlorocyclohexane (sum of)                   | < 0.3 ppm  | 0.3 ppm  | 0.3 ppm  |
| Lindan (γ-hexachlorocyclohexane)                 | < 0.6 ppm  | 0.6 ppm  | 0.6 ppm  |
| Malathion and malaoxon (sum of)                  | < 1 ppm    | 1 ppm    | 1 ppm    |
| Mecarbam   | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Methacriphos                                     | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Methamidophos                                    | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Methidathion                                     | < 0.2 ppm  | 0.2 ppm  | 0.2 ppm  |
| Methoxychlor                                     | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Mirex  | < 0.01 ppm | 0.01 ppm | 0.01 ppm |

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|   | µg/g       | LOD µg/g | LOQ µg/g |
|---|------------|----------|----------|
| Monocrotophos                                 | < 0.1 ppm  | 0.1 ppm  | 0.1 ppm  |
| Parathion-ethyl and paraoxon-ethyl (sum of)   | < 0.5 ppm  | 0.5 ppm  | 0.5 ppm  |
| Parathion-methyl and paraoxon-methyl (sum of) | < 0.2 ppm  | 0.2 ppm  | 0.2 ppm  |
| Pendimethalin                                 | < 0.1 ppm  | 0.1 ppm  | 0.1 ppm  |
| Pentachloranisole                             | < 0.01 ppm | 0.01 ppm | 0.01 ppm |
| Permethrin and isomers (sum of)               | < 1 ppm    | 1 ppm    | 1 ppm    |
| Phosalone                                     | < 0.1 ppm  | 0.1 ppm  | 0.1 ppm  |
| Phosmet                                       | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Piperonyl butoxide                            | < 3 ppm    | 3 ppm    | 3 ppm    |
| Pirimiphos-ethyl                              | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Pirimiphos-methyl (sum of)                    | < 4 ppm    | 4 ppm    | 4 ppm    |
| Procymidone                                   | < 0.1 ppm  | 0.1 ppm  | 0.1 ppm  |
| Profenophos                                   | < 0.1 ppm  | 0.1 ppm  | 0.1 ppm  |
| Prothiophos                                   | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Pyrethrum (sum of)                            | < 3 ppm    | 3 ppm    | 3 ppm    |
| Quinalphos                                    | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Quintozene (sum of S-421)                     | < 1 ppm    | 1 ppm    | 1 ppm    |
| Tecnazene                                     | < 0.02 ppm | 0.02 ppm | 0.02 ppm |
| Tetradifon                                    | < 0.05 ppm | 0.05 ppm | 0.05 ppm |
| Tetradifon                                    | < 0.3 ppm  | 0.3 ppm  | 0.3 ppm  |
| Vinclozolin                                   | < 0.4 ppm  | 0.4 ppm  | 0.4 ppm  |

## Heavy Metal Test Results

Heavy metal analysis utilizing Inductively Coupled Mass Spectrometry (ICP-MS) MQLTM-0278 by ICP-MS.

|         | µg/g                         | LOD µg/g | LOQ µg/g |
|---------|------------------------------|----------|----------|
| Lead    | 0.055 ppm                    | 0.2 ppb  | 3 ppb    |
| Arsenic | 0.005 ppm                    | 0.5 ppb  | 3 ppb    |
| Cadmium | Not Detected (MDL 0.003 ppm) | 0.1 ppb  | 3 ppb    |
| Mercury | Not Detected (MDL 0.001 ppm) | 0.07 ppb | 1 ppb    |

## Sample Certification

California Code of Regulations Title 16 Effect Date January 16, 2019  
 Authority: Section 26013, Business and Professions Code.  
 Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Prepared By:   
 SEP 30 2019  
 Desiree Rodriguez/Quality Assurance Assistant 09/30/19

Reviewed By:   
 SEP 30 2019  
 Raffie Avakian/Quality Assurance Reviewer 09/30/19



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## Aflatoxin Test Results

Aflatoxin analysis utilizing MQLTM-1129 by ECMS

| Aflatoxin | µg/g      | LOD µg/g | LOQ µg/g |
|-----------|-----------|----------|----------|
| Aflatoxin | < 0.1 ppm | 0.1 ppm  | 0.1 ppm  |

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## Moisture Test Results

Analysis performed per USP 42 method

| Moisture | Specifications | % |
|----------|----------------|---|
|          | N/A            |   |

## Cannabinoid Test Results

Cannabinoid analysis utilizing Ultra Performance Liquid Chromatography, MQLTM-1270 by UPLC

|                                 | mg/g                         | %   | LOD µg/g | LOQ µg/g |
|---------------------------------|------------------------------|-----|----------|----------|
| CBDVA                           | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| CBDV                            | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| CBDa                            | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| CBGA                            | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| CBG                             | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| CBD                             | 82 mg/113 g                  | N/A | 0.5 ppm  | 1 ppm    |
| THCV                            | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| THCVA                           | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| CBN                             | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| CBNA                            | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| Δ9 - THC                        | Not Detected<br>(NMT 50 ppm) | N/A | 0.5 ppm  | 1 ppm    |
| Δ8 - THC                        | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| CBL                             | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| CBC                             | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| THCA-A                          | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| CBCA                            | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| Sum of Cannabinoids             | 0 mg/g                       | N/A | 0.5 ppm  | 1 ppm    |
| Total THC<br>(Δ9THC+0.877*THCa) | THC Free<br>(NMT 0.3%)       | N/A | 0.5 ppm  | 1 ppm    |
| Total CBD (CBD+0.877*CBDa)      |                              | N/A | 0.5 ppm  | 1 ppm    |
|                                 | <b>Action Limit</b>          |     |          |          |
| THC per Unit                    | N/A                          |     | 0.5 ppm  | 1 ppm    |
| THC per Serving                 | N/A                          |     | 0.5 ppm  | 1 ppm    |

## Water Activity Test Results

Test method utilized: MQLTM-0593

| Moisture | Specifications |
|----------|----------------|
|          | N/A            |

## Terpene Test Results

Terpene analysis by GC-MS, MQLTM-1283 by GC-MS

|   | mg/g | % |
|---|------|---|
| (-)-α-Bisabolol (23089-26-1)            |      |   |
| Camphene (79-92-5)                      |      |   |
| δ-3-Carene (13466-78-9)                 |      |   |
| β-Caryophyllene (87-44-5)               |      |   |
| Geraniol (106-24-1)                     |      |   |
| (-)-Guaiol (489-86-1)                   |      |   |
| α-Humulene (6753-98-6)                  |      |   |
| p-Isopropyltoluene (p-cymene) (99-87-6) |      |   |
| (-)-Isopulegol (89-79-2)                |      |   |
| d-Limonene (5989-27-5)                  |      |   |
| Linalool (78-70-6)                      |      |   |
| β-Myrcene (123-35-3)                    |      |   |
| Nerolidol (7212-44-4)                   |      |   |
| Ocimene (13877-91-3)                    |      |   |
| α-Pinene (80-56-8)                      |      |   |
| (-)-β-Pinene (18172-67-3)               |      |   |
| α-Terpinene (99-86-5)                   |      |   |
| γ-Terpinene (99-85-4)                   |      |   |
| Terpinolene (586-62-9)                  |      |   |
| (-)-Caryophyllene oxide (1139-30-6)     |      |   |
| 1,8-Cineole (Eucalyptol) (470-82-6)     |      |   |
| Total Terpene Concentration:            |      |   |

## Batch Photo



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Prepared By: *[Signature]* SEP 30 2019



Desiree Rodriguez/ Quality Assurance Assistant 09/30/19

Reviewed By: *[Signature]* SEP 30 2019

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## Residual Solvents Test Results

Residual Solvent analysis utilizing Gas Chromatography - Mass Spectrometry (GC-MS), USP<42> Modified [467] By GC-FID

## Foreign Material Test Results

[Test method information]

| Class I:                | USP Limit | Results |
|-------------------------|-----------|---------|
| 1,1 Dichloroethene      | 8 ppm     |         |
| 1,1,1 Trichloroethane   | 1500 ppm  |         |
| Carbon Tetrachloride    | 4 ppm     |         |
| Benzene                 | 2 ppm     |         |
| 1,2-Dichloroethane      | 5 ppm     |         |
| <b>Class IIA:</b>       |           |         |
| Methanol                | 3000 ppm  |         |
| Acetonitrile            | 410 ppm   |         |
| Dichloromethane         | 600 ppm   |         |
| 1,2-dichloroethene      | 1870 ppm  |         |
| Cis-1,2-dichloroethene  | 900 ppm   |         |
| Tetrahydrofuran         | 720 ppm   |         |
| Cyclohexane             | 3880 ppm  |         |
| Methylcyclohexane       | 1180 ppm  |         |
| Toluene                 | 800 ppm   |         |
| 1,4-dioxane             | 890 ppm   |         |
| Chlorobenzene           | 360 ppm   |         |
| Ethylbenzene            | 1605 ppm  |         |
| m/p-Xylene              | 268.9 ppm |         |
| o-Xylene                | 1953 ppm  |         |
| Cumene                  | 70 ppm    |         |
| <b>Class IIB:</b>       |           |         |
| Hexane                  | 290 ppm   |         |
| 1,2 Dimethoxyethane     | 100 ppm   |         |
| trichloroethylene       | 80 ppm    |         |
| Chloroform              | 60 ppm    |         |
| 2-Hexanone              | 50 ppm    |         |
| Nitromethane            | 50 ppm    |         |
| Tetraalin               | 200 ppm   |         |
| Pyridine                | 100 ppm   |         |
| <b>Class III:</b>       |           |         |
| Ethanol                 | 800 ppm   |         |
| Acetone                 | 62 ppm    |         |
| IPA                     | 63 ppm    |         |
| Methyl Acetate          | 62 ppm    |         |
| Tert Butyl Methyl ether | 62 ppm    |         |
| Tributylamine           | 65 ppm    |         |
| Acetic Acid             | 506 ppm   |         |

N/A

## Notes

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## Microbiological Test Results

ACC# 846383

USP 61 & USP 62

|                      | Specification | Results   |
|----------------------|---------------|-----------|
| TPC                  | N/A           | <10cfu/gm |
| Yeast/ Mold          | N/A           | <10cfu/gm |
| Enrichment           | N/A           | No Growth |
| Coliforms            | N/A           | <10cfu/gm |
| E.Coil               | N/A           | Absent    |
| S.Aureus             | N/A           | Absent    |
| Salmonella/ Shigella | N/A           | Absent    |